LUMISSIL MICROSYSTEMS

Linear LED Driver
Product Table (High Brightness - HBLED)

July 2026

P/N	# of Ch	mA/Ch max	Sink or Source	Operating Vin (V) Min	Max	Interface	Head-room (V) @ (mA)	AEC-Q100	Open Detect	Short Detect	External NTC	Thermal Shunt	ASIL-B	Package/ Pin	Special Features
IS3xLT3177	1	200	Sink	5.0	40	PSM	1.5 @ 200	•						SOT23-6 eSOP-8-EP	Low cost simple control
IS3xLT3178	1	200	Sink	2.9	40	PWM EN	1.5 @ 200	•						SOT23-6 eSOP-8-EP	Logic level PWM input
IS31LT3176	1	200	Sink	3.0	40	PWM	1.5 @200							DFN-6	LED short. Latch off, up to 10kHz PWM input
IS32LT3187	1	350	Sink	4.5	40	PSM	0.9 @ 350	•	•	•	•	•		eTSSOP-8	Q3-2026 Thermal Sharing
IS32LT3126	2	150	Source	5.0	42	PSM	1.1 @ 150	•	•	•				eTSSOP-16	CSTOR capacitor holds fault status
IS32LT3140A/C IS32LT3140B/D	1	450	Source	4.5	40	EN & PWM	0.7 @ 150	•	•	•		•	•	eTSSOP-14 eSOP-8	ASIL-B on C/D only. Similar to TPS92610
IS32LT3141A IS32LT3141B	1	450	Source	4.5	40	Onewire Serial	0.7 @ 150	•	•	•				eTSSOP-14 eSOP-8	100kbps Serial Shift version of IS32LT3140A/B
IS32LT3151A/C/E IS32LT3151B/D	1	450	Source	4.5	40	EN & PWM	0.250 @ 300	•	•	•		•	•	eTSSOP-14 eSOP-8	IS32LT3151C/D Ver suport ISO26262, Similar to TPS92629, ASIL-B on C/D only
IS32LT3175N	1	150	Source	5.0	42	Switch or -PWM	0.9 @ 150	•						eSOP-8	Gamma fade in/out with Resistor setting, for Negative Polarity PWM
IS32LT3175P	1	150	Source	5.0	42	Switch or +PWM	0.9 @ 150	•						eSOP-8	Gamma fade in/out with Resistor setting, for Positive Polarity PWM
IS32LT3168	1	200	Source	6.5	28	Magnet	1.5 @ 200	•						eSOP-8	Integrated Hall Sensor, Prog w/ R-setting, Omni-polar
IS32LT3128A	3	2x150, 1x30	Source	5.0	42	Switch or PWM	0.9 @ 150	•		•				eTSSOP-20	Debounced/Latched Switch inputs, Gamma correct fade in/ out by resistor settings
IS32LT3129	3	2x150, 1x30	Source	5.0	42	I2C 1MHz	0.9 @ 150	•	•	•				eTSSOP-20	Debounced/Latched SW inputs, Gamma correct fade in/out by resistor settings
IS32LT3129A	3	2x150, 1x30	Source	5.0	42	I2C 1MHz	0.9 @ 150	•	•	•				eTSSOP-20	Debounced/Latched SW inputs, Gamma correct fade in/out by resistor settings
IS32LT3143	3	150	Source	5.0	40	EN & PWM	0.9 @ 150	•	•	•				eTSSOP-16	Internal Temp Rolloff, p-p w/ TPS92630
IS32LT3144	3	150	Source	5.0	40	EN & PWM	0.9 @ 150	•	•	•	•			eTSSOP-16	Temp Rolloff, similar to TPS92630
IS32LT3152 A/B	3	150	Source	4.5	40	PSM	0.6 @ 150	•						eTSSOP-16	Internal Temp Rolloff, B = ASIL-B, p-p w/ TPS92623
IS32LT3153 A/B/E	3	150	Source	4.5	40	EN & PWM	0.6 @ 150	•	•	•	•	•	•	eTSSOP-20	Temp Rolloff, B = ASIL-B only p-p w/TPS92633
IS32LT3163	3	150	Source	5.0	40	PSM	0.6 @ 150	•	•	•		•		eTSSOP-16	External Temp Rolloff. Low Power
IS32LT3123	4	Ext MOSFET	Sink	5.0	40	Stop/Tail	0.2	•	•			•		eTSSOP-24	Stop&Tail, CHMSL, cascade-able, NTC input
IS32LT3124 A/B/C/D/E/F	4	150	Source	5.0	28	4 x PWM	1.3 @ 150	•	•					eTSSOP-16	Parallelable outputs to 600mA, Multi Fault Modes, Headroom Control
IS32LT3154 A/B	4	150	Source	4.5	40	EN & PWM	0.6 @ 150	•	•	•	•	•		eTSSOP-24	Temp Rolloff, B is p-p w/ TPS92633
IS32LT3146	6	100	Source	5.0	40	Resistor	1.1 @ 75	•		•		•		eTSSOP-20	Sequential turn on programable with resistors
IS32LT3147	6	75	Source	5.0	40	6 x PWM	1.1 @ 75	•		•		•		eTSSOP-20	
IS32LT3149 A/B	10	100	Source	4.5	40	Resistor	0.95 @ 100	•	•			•	•	eTSSOP-24	Q2-2027 Sequential turn on programable with resistors, increased current capacity, thermal shunt circuit, B is ASIL-B
IS32LT3362	12	1.5A	Bypass	4.5	55	UART		•	•				•	eLQFP-48	Q2-2027 12-Ch Shunting Headlight Array Driver, 10-bit PWM, SS, Temp det
IS32LT3365 A/B	12	1.5A	Bypass	4.5	55	UART, Lumibus		•	•	•	•		•	eLQFP-48	12-Ch Shunting Headlight Array Driver, 10-bit PWM, SS, Temp det
Animation Products															
IS32LT3131 A/B/C	12	75	Source	4.5	40	UART/ LumiBus/ SPI	1.2 @ 75	•	•	•				eTSSOP-28	Support 16 devices, SS, CRC Redundancy, ASIL-A
IS32LT3132	12	100	Source	4.5	16	UART, CAN-FD	0.68 @ 100	•	•	•				eTSSOP-24, WQFN-32	Support 64 devices, SS, UART over CANFD with CRC, PWM dither mode, 10-bit ADC
IS32LT3136	32	35	Source	4.5	22	UART, CANFD	0.8 @ 35	•	•	•			•	QFN-48	OLED, support 64 devices, SS, UART over CANFD with CRC, DCFB, on-die OTP, 10-bit ADC
IS32LT3137	12	100	Sink	4.5	16	UART, CAN-FD	0.5 @ 100	•	•	•				WFQFN-32	12-Ch version of IS32LT3138
IS32LT3138A	18	100	Sink	4.5	16	UART	0.5 @ 100	•	•	•			•	WFQFN-32	Version of IS32LT3138. ADC, DCFB, OTP
Smart Ambient Lighting															
IS32FL3105A/B IS32FL3105C/D	18x2	60	Sink	3	12	LumiBus, UART	0.8 @ 60	•	•	•			•	WFQFN-32	Q3-2026 State Machine, OTP (write only) memory, DCFB A/C up to 25 Devices, B/D LAA 256 Devices
IS32SL3105E	18	60	Sink	3	12	UART	0.8 @ 60	•	?				•	WFQFN-32	Q2-2026 no crossfade
IS32FL3107A/B IS32FL3107C/D	18x2	60	Sink	3	12	LumiBus, UART	0.8 @ 60	•	•	•			•	WFQFN-32	State Machine, MTP (read/write) memory, DCFB
IS32LT3182	2	150	Sink	5.5	18	LIN	0.6 @ 100	•	•	•				SOP-8-EP	2-Cap Touch, 50mA LDO Output
IS32LT3183A	4	60	Sink	5.5	18	LIN	0.9 @ 60	•	•	•				SOP-8 EP	32kB, Color/Temp Correction, Flexible outputs
IS32FL3202	3	63	Sink	3.5	6.5	LumiBus	0.35 @ 63	•						WFDFN-10	Auto Address Assignment, 128 node@2MHz, 254 node@1MHz
IS32SL3257	18x2	60	Sink	3	12	CAN	0.8	•	•	•			•	WFQFN-32	Q4-2026 Internal ARM M0+
IS32SL3259	18x2	60	Sink	3	12	LIN	0.8	•	•	•			•	WFQFN-32	Q1-2027 Internal ARM M0+
IS32SL3259															

New
Soon to be released

Industrial Grade P/N's are IS31LTxxxx
Automotive Grade P/N's are IS32LTxxxx

If P/N is shown as IS3x then both Industrial and Automotive are offered.

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Switching LED Driver, Point of Load, & Boost LED Driver Product Table

July 2026

P/N	LED Current Max (A)	Operating Vin (V) Min	Operating Vin (V) Max	Integrated Fet	Synchronous	Switching Freq (Hz)	RDS_{ON} (Ohms)	Dimming	AEC-Q100	Industrial	LED Open Protect	LED Short Protect	Fault Pin	Spread Spectrum	Soft Start	OVP	Thermal Rolloff	Package/Pin	Special Features
Buck LED Drivers																			
IS31LT3350	0.750	6.0	40	Y		Up to 1M	0.9	PWM ADJ Pin		•	•	•						SOT23-5 SOT89-5	Lowside Hysteretic, 1200:1 Dimming, Low Cost, pin-pin
IS31LT3353	1.0	6.0	40	Y		Up to 1M	0.5	PWM ADJ Pin		•	•	•						SOT23-5 SOT89-5	Lowside Hysteretic, 1200:1 Dimming, Low Cost, pin-pin
IS31LT3360	1.2	6.0	40	Y		Up to 1M	0.27	PWM ADJ Pin		•	•	•						SOT89-5	Lowside Hysteretic, 1200:1, Dimming, Low Cost, p-p upgrade to IS31LT3350/53
IS31LT3354	Design Driven	6.0	40			Up to 1M	Ext MOSFET	PWM ADJ Pin		•	•	•						SOT23-5	Lowside Hysteretic, 1200:1, Dimming, Low Cost
IS3xLT3361	1.3	6.0	40	Y		Up to 1M	0.25	PWM or Ana	•	•	•	•	•	•	•			eSOP-8	Lowside Hysteretic, 2000: 1 Dimming
IS32LT3951	1.5	4.5	38	Y		200K - 2.2M	0.20	PWM or Ana	•		•	•	•	•				eSOP-8	~pin-pin family, COT, Temp Monitor (IS3xLT3952), Internal LDO pin (IS3xLT3953B)
IS3xLT3952	1.5								•	•	•			•					
IS3xLT3953/B	3.0								•	•	•			•					
IS3xLT3954/A	3.0								•	•	•		•	•					
IS32LT3961A	2.0	5.0	65	Y		200K - 2.2M	0.2	PWM or Ana	•	•	•	•	•				•	eTSSOP-16	LED Cathode to GND, Over current hiccup protection, 3A Peak in low duty cycle
IS32LT3963	2x1.6	4.5	65	Y	Y	100K - 2.1M	HS=0.25 LS=0.25	PWM or Ana	•	•	•	•	•	•			•	eTSSOP-32	Optimized for Matrix Controller, Adaptive on-time avg current control, ASIL-B
IS32LT3964	2x1.6	4.5	65	Y	Y	100K - 2.1M	HS=0.23 LS=0.23	PWM or Ana, SPI	•	•	•	•	•	•			•	eTSSOP-32	Optimized for Matrix Controller, Adaptive on-time avg current control, ASIL-B, Top-Thermal PAD
IS32LT3965/A	1.5	3.8	38	Y	Y	Up to 2.2M	HS=0.2 LS=0.1	PWM or Ana	•	•	•	•	•				•	WFCQFN-14	FCCM operation. A version is optimized to drive IRLED's with 3A pulses on 120FPS cameras
Multi-Topology LED Driver (Buck, Boost, Buck/Boost)																			
IS3xLT3957A	Design Driven	5.0	75			100K - 1M	Ext MOSFET	PWM or Ana	•	•	•	•	•	•	•	•		eTSSOP-16	Headlamp, Fog light driver
IS32LT3958	Design Driven	5.0	70			100K - 1M	Ext MOSFET	PWM, Ana or Internal PWM	•		•	•	•	•	•	•	•	eTSSOP-20	Internal dual dimming set for brightness control
IS32LT3958A	Design Driven	5.0	70			100K - 1M	Ext MOSFET	PWM, Ana or Internal PWM	•		•	•	•	•	•	•	•	eTSSOP-20	Internal dual dimming set for brightness control and Improved Soft Start
IS32LT3958B	Design Driven	5.0	80			100K - 1M	Ext MOSFET	PWM, Ana or Internal PWM	•	•		•	•	•	•	•	•	eTSSOP-20	Internal dual dimming set for brightness control and Improved current sense and shutdown current ("Low Q")
IS32LT3959	Design Driven	4.5	55			150K - 650K	Ext MOSFET	PWM, Ana or Internal PWM	•		•	•	•	•	•	•		eTSSOP-28	LED Cathode to GND
IS32LT3959A	Design Driven	4.5	55			150K - 650K	Ext MOSFET	PWM, Ana or Internal PWM	•		•	•	•	•	•	•		eTSSOP-28	Optimized LED Bypass
IS32LT3960A/B	Design Driven	4.5	65			100K - 1M	Ext MOSFET	PWM, Ana or Internal PWM	•	•	•	•	•	•	•	•	•	eTSSOP-32, WFQFN-32	Dual Channel, CV/CC Controller, Four-Phase Configuration, B = ASIL-B, TPS92682 p-p
IS32LT3962	Design Driven	5.0	80			100K - 1M	Ext MOSFET	PWM, Ana or Internal PWM	•	•	•	•	•	•	•	•	•	WFQFN-32	Dual Channel, two analog dimming pins, Dual version of IS32LT3958B, multitopology
IS32LT3967A/B	Design Driven	4.5	65			100K - 2.2M	0.140	PWM, Ana	•				•	•			•	DFN-14	Q4 2026 A=Boost, Buck/Boost B=Buck p-p w LP8869
Voltage Regulator, Point of Load (POL)								**Vout Range**											
IS3xPM3420A	3.0	3.8	36	Y	Y	400K	HS=0.13 LS=0.08	1V - 24V	•	•			•	•	•	•		eSOP-8	COT
IS3xPM3420B	3.0	3.8	36	Y	Y	400K	HS=0.13 LS=0.08	1V - 24V	•	•				•	•	•		eSOP-8	Pin selectable FCCM or PFM mode
IS3xPM3426	2.0	3.8	36	Y	Y	100K - 2.2M	HS=0.08 LS=0.04	1V - 24V	•	•			•	•	•	•		WFCQFN-14	Pin selectable FCCM or PFM mode
IS3xPM3427	4.0	3.8	36	Y	Y	100K - 2.2M	HS=0.08 LS=0.04	1V - 24V	•	•			•	•	•	•		WFCQFN-14	p-p w IS32PM3426, "Flip Chip", no Bond wires
IS3xPM3510	3.0	4.5	55			150K - 650K	Ext MOSFET	1.2V - 55V	•	•			•	•	•	•		eTSSOP-16	Multi-Topology, COT
IS32PM3430	6.0	3.8	36	Y	Y	100K - 2.2M	HS=0.033 LS=0.022	1V - 24V	•				•	•	•	•		WFCQFN-11	Pin selectable FCCM or PFM mode, Ultra-low Iq
Boost LED Drivers								**Dimming**											
IS31LT3505	0.750	6.0	30	Y		400K	HS=0.8	PWM		•					•	•		MSOP-10	
IS31BL3506 A/B	0.250	2.7	5.5	Y		1M	HS=0.8	PWM		•					•	•		TSOT23-6, SOT23-6, DFN-8 (A)	Over Temp/Voltage Protection
IS31BL3508 A/B	0.250	2.7	5.5	Y		1M	HS=0.7	PWM		•					•	•		SOT23-6, TSOT23-6 (A)	Over Temp/Voltage Protection
IS31LT3948	Design Driven	5.0	100			400K	Ext MOSFET	PWM		•						•		SOP-8	PFM Mode
IS31BL3228 A/B		2.8	5.5			1M	Charge Pump	SET pin		•					•	•		UTQFN-12	Notebook/tablet backlight, p-p w PE23108

Industrial Grade P/N's are IS31LTxxxx
Automotive Grade P/N's are IS32LTxxxx
COT = Constant On Time

New
Soon to be released

FCCC = Forced Continuous Conduction Mode
PFM = Pulse Frequence Mode "Light Load Mode"

If P/N is shown as IS3x then both Industrial and Automotive are offered.

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